	Opti	on			FOT COM (0/FAD
0.0 Operrate at BPT limit			Treatment Technologies	Est capital cost. Cost	EST O&M cost/YEAR
			Activate sludge	\$0	\$3,000,000
			TOTAL		\$3,000,000
	s to point source Was ration of GIPOP.	ste Discharge Licenses.	Activate sludge	\$0	410000
BOD	TSS	TP	GIPOP 1*		
13400	28200	164			
			TOTAL		410000
	es to point source Wation of GIPOP and G	aste Discharge Licenses. GIPOP2.			
BOD	TSS	TP	Activate sludge		410000
13400	28200	164	GIPOP 1& GIPOP 2*		
			TOTAL	0	410000
	D/TSS of point sourc Continue operation	e Waste Discharge Licenses to of GIPOP	EXISTING (presently near licence limits)		
BOD	TSS	TP	Add additional aeration	800,000	25,000
10200	11000	164	GIPOP 1*		
			improved secondary clarifification	300000	130,00
			Floating media reactor system at paper mill**	15000000	1,500,00
			present activated sludge		350000
			TOTAL	16,100,000	5,155,00
	•	ce Waste Discharge Licenses to int source phosphourous by 1/6	EXISTING (presently near licence limits)		
BOD	TSS	TP	Add additional aeration	800,000	25,00
10200	11000	148	Improved engineering controls on phosphorus***		
			Improved secondary clarification	300000	130,00
			Floating media reactor system at paper mill**	15000000	1,500,00
			Present activated sludge		410000
			TOTAL	16,100,000	5,755,000
		rce Waste Discharge Licenses to int source phosphorous by 1/3	EXISTING (presently near license limits)		
BOD	TSS	TP	Add additional aeration	800,000	25,000
10200	11000	148	Improved engineering controls on phosphorus***		
Maine DEP			Improved secondary clarification	300000	130,00

			Floating media reactor system at paper mill**	15000000	1,500,000
			Present activated sludge		4100000
			TOTAL	16,100,000	5,755,000
	. Reduce point source	rce Waste Discharge Licenses to phosphorus by 1/3. Continue	EXISTING (presently near license limits)		
BOD	TSS	TP	Add additional aeration	800,000	25,000
11000	20000	99	Improved engineering controls on phosphorus***		
			Improved secondary clarification	400000	130,000
			Floating media reactor system at paper mill**	15000000	1,500,000
			Present activated sludge		4100000
			GIPOP 1*		110000
			TOTAL	16,200,000	5,755,000
model levels		rce Waste Discharge Licenses to e phosphorus by 1/3. Continue		. 6,200,000	,,,,,,,,,
BOD	TSS	TP	Add additional aeration	800,000	25,000
11000	20000	99	Improved engineering controls on phosphorus***		
			Improved secondary clarification	400000	130,000
			Floating media reactor system at paper mill**	15000000	1,500,000
			Present activated sludge		4100000
			GIPOP 1& GIPOP 2*		1100000
			TOTAL	16,200,000	5,755,000
	Reduce point source	ce Waste Discharge Licenses to phosphorus by 50%. Continue	EXISTING (presently near license limits)	.0,230,000	-,,
BOD	TSS	TP	Add additional aeration	800,000	25,000
10200	11000	74	Improved engineering controls on phosphorus		
			Tertiary treatment with polymer		
			Floating media reactor system at paper mill**	15000000	1,500,000
			Present activated sludge		4100000
			GIPOP 1*		
			TOTAL	15,800,000	5,625,000
	. Reduce point source	te Waste Discharge Licenses to e phosphorus by 67%. Continue	EXISTING (presently near license limits)		
BOD	TSS	TP	Add additional aeration	800,000	25,000
10200	11000	49	Improved engineering controls on phosphorus***		
			Tertiary treatment with polymer & chemical precip***		
			Floating media reactor system at paper mill**	15000000	1,500,000
			Present activated sludge		4100000
Maine			GIPOP 1*		

			T		
			TOTAL	15,800,000	5,625,000
model levels.	•	e Waste Discharge Licenses to phosphorus by 40%. Continue	EXISTING (presently near license limits)		
BOD	TSS	TP	Add additional aeration	800,000	25,000
10200	11000	89	Improved engineering controls on phosphorus***		
			Tertiary treatment with polymer***		
			Floating media reactor system at paper mill**	15000000	1,500,000
			Present activated sludge		4100000
			GIPOP 1& GIPOP 2*		
			TOTAL	15,800,000	5,625,000
model levels.		e Waste Discharge Licenses to phosphorus by 1/3. Continue	EXISTING (presently near license limits)		
BOD	TSS	TP	Add additional aeration	800,000	25,000
10200	11000	99	Improved engineering controls on phosphorus***		
			Improved secondary clarification	400000	130,000
			Floating media reactor system at paper mill**	15000000	1,500,000
			Present activated sludge		4100000
			GIPOP 1& GIPOP 2*		
			TOTAL	16,200,000	5,755,000
model levels.	•	e Waste Discharge Licenses to phosphorus by 40%. Continue	EXISTING (presently near license limits)		
BOD	TSS	TP	Add additional aeration	800,000	25,000
10200	11000	89	Improved engineering controls on phosphorus***		
			Tertiary treatment with polymer***		
			Floating media reactor system at paper mill**	15000000	1,500,000
			Present activated sludge		410000
			GIPOP 1& GIPOP 2		
			TOTAL	15,800,000	5,625,000
10. Zaro dicol	harge from mill - mill w	ould not be viable	Reverse osmosis (industrial kidney) technology	approx 500,000,000	40,000,000
10. Zelo disci	naige nom mill - mill w	outu fiot be viable	ivereise osinosis (industrial kidney) technology	Mill shut down	40,000,000 360,000,000 removed from NH econom
11 Zero dicol	harge from mill - mill w	ould not be viable	Reverse osmosis (industrial kidney) technology	approx 500,000,000	40,000,000 removed from NH econom
11. 2610 UISU	naige nom mill - mill w	Odia HOLDE VIADIE	noverse estitosis (industrial nuriey) technology	Mill shut down	360,000,000 removed from NH econom
11 Zero dicol	harge from mill - mill w	ould not be viable	Reverse osmosis (industrial kidney) technology	approx 500,000,000	40,000,000
11. Zelu uisti	naige nom mill - mill w	odia fiot be viable	neverse osmosis (industrial numey) technology	Mill shut down	360,000,000 removed from NH econom
	ges to point source Wa	ste Discharge Licenses.	Activate sludge	\$0	4100000
BOD	TSS	TP	Ŭ	**	
Maina					

13400	28200	164		
			TOTAL	4100000
remove dam				

¹ assume phosphorous at 2.8 ppm in discharge

^{*} Cost associate with GIPOP 1 & GIPOP 2 submitted by partnership

^{**}used cost figure from recent Madawaska secondary treatment project
*** phoshorous removal costs in Woodard & Curran Document all cost are +/- 30%